WJT003-0036 (SP03-081) *JFW*

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stephen J. Caracci, et al

Serial No: 10/632,276



Examiner: TBA

Filed: August 1, 2003

Group Art Unit: 2874

For: SUBSTRATE INDEX MODIFICATION  
FOR INCREASING THE SENSITIVITY  
OF GRATING-COUPLED WAVEGUIDESINFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.56, 1.97 – 1.98Mail Stop Amendment  
Commissioner of Patents  
Alexandria, VA 22313-1450

Dear Sir:

The Examiner's attention is hereby directed to the following reference(s) listed on the attached Form PTO-1449 for consideration in connection with the examination of the above-identified patent application.

One copy of any non-US patent is enclosed.

Each of the enclosed reference(s) was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the enclosed documents constitute "prior art." If it should be determined that any of the submitted documents do not constitute "prior art" under United States law, applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the enclosed references, should one or more of the references be applied against the claims of the present application.

Respectfully submitted,

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607-974-3921Date: December 2, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 2, 2004  
Date of Deposit

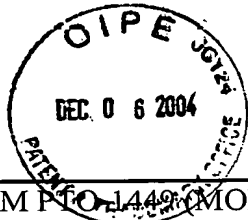
Thomas R. Beall

Name of applicant, assignee, or  
Registered Representative

Signature

December 2, 2004

Date of Signature



WJT003-0036 (SP03-081)

FORM PTO-1449 (MODIFIED)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.  WJT003-0036 (SP03-081)	SERIAL NO.  10/632,276
	APPLICANT Stephen J. Caracci, et al.	
	FILING DATE	GROUP: 2874

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date if Approp.
	AA	2002/0034457	03-21-02	W. Monty Reichert et al.	422	82.11	
	AB	2003/0023014	01-30-03	Dennis W. Smith et al.	526	242	
	AC	2003/0027328	02-06-03	B.T. Cunningham et al.	435	287.2	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub-Class	Translation Yes No
	AL	EP 1 031 828	08-30-00	Europe			X
	AM	WO 90/08318	07-26-90	PCT			X
	AN	WO 03/021313	03-13-03	PCT			X
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
AQ	W. Lukosz et al., "Sensitivity of integrated optical grating and prism couplers as (Bio)Chemical Sensors, Sensors & Actuators, Vol. 15, 1988, No. 3, Lausanne, Switzerland, pgs. 273-284	
AR	Ph. M. Nellen et al., "Integrated optical input grating couplers as biochemical sensors", Sensors & Actuators, Vol. 15, No. 3, 1988, Lausanne, Switzerland, pgs. 285-295	
AS	R.E. Kunz et al., "Finite grating depth effects for integrated optical sensors with high sensitivity", Biosensors & Bioelectronics, Vol. 11, No. 6/7, pgs. 653-667	
AT	B. Cunningham et al., "Colorimetric resonant reflection as a direct biochemical assay technique", Sensors & Actuators B, Vol. 81, 2002, pgs. 316-328	
AU	W. Lukosz, "Principles and sensitivities of integrated optical and surface plasmon sensors for direct affinity sensing and immunosensing", Biosensors & Bioelectronics, Vol. 6, 1991, pgs. 215-225	
AV	W. Lukosz, "Integrated optical chemical and direct biochemical sensors", Sensors & Actuators B, Vol. 29, 1995, pgs. 37-50	
AW	O. Parriaux et al., "Sensitivity optimization of a grating coupled evanescent wave immunosensor", Sensors & Actuators B, Vol. 29, 1995, pgs. 289-292	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement-PTO-1449 (Modified)